NORTHPORT EAST NORTHPORT UNION FREE SCHOOL DISTRICT
OFFICE OF THE SUPERINTENDENT OF SCHOOLS

2000/2001 CHLORDANE TESTING RESULTS

NORTHPORT MIDDLE SCHOOL

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ENVIROSCIENCE CONSULTANTS, INC.

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B. GALLAGHER
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L. SAVARESE

13 December 2000

Dr. William Brosnan, Superintendent of Schools
Northport East Northport Union Free School District
Post Office Box 210
110 Elwood Road
Northport, NY 11768

Phone: 631-262-6604 Facsimile: 631-262-6607
Subject: Chlordane Air Samples Classrooms C 34 and D 42, Northport Middle School, December 5, 2000

Dear Dr. Brosnan:

This report describes the chlordane air samples collected in classrooms C 34 and D 42 December 5, 2000, in Northport Middle School.

Table 1 Chlordane Air Sample Results, December 5, 2000

Sample ID #	Location	MDL $\mu g/m^3$	Result $\mu g/m^3$
CA1	classroom 34, 1 ft above floor next to univent	0.025	< 0.025
CA2	classroom 42, 1 ft above floor next to univent	0.015	< 0.015
CA3	Field blank	0.01 /tube	< 0.01 /tube

The chlordane air samples collected in classrooms C 34 and D 42 are less than the detectable limits of 0.015 $\mu g/m^3$ and 0.025 $\mu g/m^3$. The United States Environmental Protection Agency's Reference Concentration (RfC) for Chlordane is 0.007 mg/m^3 (7 $\mu g/m^3$). The United States Environmental Protection Agency estimates that inhalation of this concentration, or less, over a lifetime would not likely result in the occurrence of chronic, non-cancer effects. The EPA estimates that if an individual were to breath air containing chlordane at 0.01 $\mu g/m^3$ over her or his entire lifetime, that this person would theoretically have no more than a one-in-a-million increased chance of developing cancer as a direct result of breathing air containing chlordane.

Please contact me if you have questions at 631-580-3191 or facsimile 631-580-3195, or e-mail <chuckgilbert@envirohealth.org>.

Sincerely,

Charles E. Gilbert

Charles E. Gilbert, Ph.D., M.S.,
Toxicologist & Epidemiologist

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December 18, 2000

Mr. Anthony S. Resca
Superintendent of Buildings and Grounds
Northport East Northport UFSD
P.O. Box 210
Northport, NY 11768

Re: **Northport Middle School Chlordane Sampling**

Dear Mr. Resca:

Enviroscience Consultants, Inc. is reporting the preliminary results of the evaluation of the chlordane issue at the Northport Middle School. Chlordane has become an issue as a result of indoor air quality concerns at the school and the fact that chlordane had been detected in the school in the early 1980s.

Chordane is a pesticide that was used in the United States primarily for termite control from 1948 to 1988. The production of chlordane was ceased in 1983 for most uses and was finally banned on April 14, 1988. Chlordane was typically applied at the perimeter of a structure by drilling 12 to 18 inch holes with lateral spacings of 1 to 3 feet. The chlordane was then injected into each hole to create a barrier to prevent termites from entering the area of the footprint of the building. Chlordane was used so extensively that in a study of over 1000 homes in New Jersey performed by the US Air Force and the New Jersey Department of Environmental Protection, it was found that chlordane was detected in approximately 75 percent of the homes that were constructed prior to 1988.

To address the issue at the school, Enviroscience met with school officials to review existing files and to determine which classrooms were associated with the highest indoor air quality concerns. Samples were obtained from the soil at the perimeter of eight selected classrooms (A-12, C-34, D-42, G-51, G-52, G-53, H-61, and K-73) on December 7, 2000. The samples were obtained from a distance of approximately one foot from the building wall and beneath the univent at each room. At each sample location, the samples were composited from two locations approximately three feet apart. The samples were obtained from the soil surface to a depth of approximately two inches.

The results show that of the eight samples obtained, two showed detections of chlordane (A-12 at 2.7 parts per million and C-34 at 4.1 parts per million)(see attachment A for the laboratory report). The New York State Department of Environmental Conservation has a soil guidance value for chlordane of 0.54 parts per million (as per NYSDEC Technical Administrative Guidance Memorandum 4046). Although these concentrations are considered to be minor exceedances of the guidance values, the presence of detectable levels of chlordane shows that further study is warranted to adequately evaluate the concentrations and extent of chlordane in the soil.

Enviroscience recommends obtaining 30 additional soil samples from the soil adjacent to most walls of the buildings. Of these samples, 26 will be obtained from shallow locations (0 to 2 inches below grade) and at two locations, the areas adjacent to rooms A-12 and C-34 where chlordane has been detected, samples will be obtained from a depth of one foot and three foot below grade to evaluate the vertical extent of chlordane.

The information from this investigation will be integrated with the indoor air sample and the wipe sample results to evaluate the potential pathways for chlordane to be entering the building if it is found that significant levels of chlordane are present.

Should you have any questions, please do not hesitate to call.

Very truly yours,

Peter Dermody
Senior Hydrogeologist

enclosure
pd\northportresca1

ATTACHMENT A

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Enviroscience Consultants, Inc.
2150 Smithtown Avenue
Ronkonkoma, NY 11779
Attention: Mr. Peter Dermody

Report Date: 12/12/2000
Re: Client Project ID: Northport SD
York Project No.: 00120159

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 12/12/2000
Client Project ID: Northport SD

York Project No.: 00120159

Enviroscience Consultants, Inc.
2150 Smithtown Avenue
Ronkonkoma, NY 11779
Attention: Mr. Peter Dermody

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 12/08/00. The project was identifed as your project "Northport SD ".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			NP-1/Rm 53		NP-2/Rm 52	
York Sample ID			00120159-01		00120159-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chlordane	SW846-8080	mg/kg	Not detected	0.1	Not detected	0.1

Client Sample ID			NP-3/Rm 51		NP-4/Rm 73	
York Sample ID			00120159-03		00120159-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chlordane	SW846-8080	mg/kg	Not detected	0.1	Not detected	0.1

Client Sample ID			NP-6/Rm 12		NP-8/Rm 34	
York Sample ID			00120159-05		00120159-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chlordane	SW846-8080	mg/kg	2.7	0.1	4.1	0.1

Client Sample ID			NP-9/Rm 61		NP-10/Rm 42	
York Sample ID			00120159-07		00120159-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chlordane	SW846-8080	mg/kg	Not detected	0.1	Not detected	0.1

YORK

Report Date: 12/12/2000
Client Project ID: Northport SD

York Project No.: 00120158

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.

Approved By: _____ Date: 12/12/2000
Robert Q. Bradley
Managing Director

YORK

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Update 12/22/00

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Tiffany-Bader Environmental, Inc.
355 Long Lane–P.O. Box 1022
Bedminster, New Jersey 07921-1022
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Tel: (212) 475-4122
Fax: (908) 439-2213
www.envirocenter.com/TBE
e-mail: tbenvir@aol.com

December 22, 2000

Dr. William Brosman, Superintendent of Schools
Northport School District
Northport, NY
Fax 631/262-6607; PH 631/262-6604

RE: CHLORDANE DUST SAMPLING OF NORTHPORT MIDDLE SCHOOL

Dear Dr. Brosman:

Tiffany-Bader Environmental, Inc. (TBE) conducted sampling for chlordane, using dust wipe samples, at Northport Middle School, located in Northport, NY, on December 7 and December 19, 2000. This summary report will review the results to date, as of December 21st.

The following samples were collected: (1) 6 chlordane dust wipe samples from 5 classroom areas on December 7th; (2) 4 chlordane dust wipe samples from A-15 on December 19th [after clean-up of A-15 on December 16-17].

December 7th Results

As stated in the report from TBE on December 16th, five chlordane dust wipe samples were collected from classrooms on December 7th. A large surface area of approximately 1 square yard was sampled, including desks, tops of blackboards, window sills, and cabinet tops. The limit of detection for these samples were 0.250 micro-grams [μg] per wipe (or 0.000250 mg per sample wipe). Four of the 5 samples showed no detectable limit. One sample, from classroom A-15, yielded a low level of 0.581 microgram per wipe. The chlordane sampling was done in response to concerns about previous application in the 1970s of this pesticide in the soil just outside the school building.

December 19th Results

Four chlordane dust wipe samples, including 1 field blank, were collected from classroom A-15 on December 19th. A large surface area of approximately 1 square yard was sampled. The samples were collected from the following specific areas: (1) teacher's desk; (2) three student desks; and (3) window sills. The limit of detection for these samples were 0.250 micro-grams [μg] per wipe (or 0.000250 mg per sample wipe); the limit of quantification is 0.500 micro-grams [μg] per wipe. Two of the 3 samples were below any quantification limit, but did show just barely trace amounts of the pesticide. One sample, from the window sill in classroom A-15, yielded a low level

of 1.96 microgram per wipe. This concentration is marginally higher than the December 7th sample results. This second round of sampling shows that the areas most frequented by the staff and students showed extremely low trace amounts, at concentrations just barely within extremely low levels seen by the laboratory methodology's ability to detect its presence. The one sample which yielded a quantifiable level was from the window sill. Soil sampling recently performed within the past 7 days by EnviroScience Consultants, Inc., detected low levels of this pesticide in the soil at the perimeter of the school building. The December 19th wipe sample results show that a trace amount of the pesticide was present in some dust by the window sill, and barely present on the other 2 samples. Further cleaning of the entire classroom is called for, with a focus on this specific area [the window sill], and the classroom should not be occupied until further post cleaning samples are obtained.

Background Information

Chlordane was used as a pesticide in the United States from 1948 to 1988. In 1988, all approved uses of chlordane in the United States were canceled. Chlordane was heavily used on Long Island; the pesticide is persistent in the environment, and low levels such as found in the accumulated dust in A-15 are not considered usual for this area.

There are various standards for air sampling for chlordane; there are no standards for surface area wipe samples. The Occupational Safety & Health Administration (OSHA) has a permissible exposure limit (PEL) of 0.5 mg/m^3 [or 500 $\mu g/m^3$]. According to the U.S. EPA, the Reference Concentration (RfC) for chlordane is 0.007 mg/m^3. The U.S. Environmental Protection Agency (EPA) estimates that inhalation of this concentration or less, over a lifetime, would not likely result in the occurrence of chronic, noncancer effects. Human studies are inconclusive regarding chlordane and cancer. Animal studies have reported liver cancer in mice and male rats exposed to chlordane via ingestion. EPA has classified chlordane as a Group B2, probable human carcinogen of medium carcinogenic hazard.

APPENDIX A:

CHLORDANE DUST WIPE SAMPLES

Northport Middle School
December 7, 2000

SAMPLE ID #	LOCATION	Concentration, ug/sample	Concentration, mg/sample
120700-501	G-51	ND	
120700-502	A-15	0.581 ug/m3	0.000581 mg/m3
120700-503	C-34	ND	
120700-504	D-42	ND	
120700-505	Guidance Rm	ND	
120700-506	Field Blank	ND	

ND = Not Detected; below the limits of detection. The limit of detection was 0.250 μg per sample wipe. [μg = microgram; 1,000 μg = 1 milligram (mg)].

Four of the 5 samples were below the limits of detection (or less than the quantitation limit) of the analytical technique. The limit of detection was 0.250 μg per sample wipe, or 0.000250 mg per sample wipe. The limit of detection is defined as the amount of the material (analyte) that can be distinguished from background.

WOHL Wisconsin Occupational Health Laboratory

Mail:
P.O. Box 7996
Madison, WI 53707-7996
Phone: (800) 446-0403

Packages:
2601 Agriculture Dr.
Madison, WI 53718
Fax: (608) 224-6213

Wisconsin State Laboratory of Hygiene

University of Wisconsin

December 13, 2000

JOHN TIFFANY
TIFFANY BADER ENVIRONMENTAL
PO BOX 1022

BEDMINSTER NJ 07921

Company #: 4894

NORTHPORT MID SCHL

The results for the samples received by the lab on 12/11/00 are as follows:

Lab#	Field#	Value	Unit	Analyte
862474	501	ND <0.250	ug/sample	Chlordane
862475	502	0.581	ug/sample	Chlordane
862476	503	ND <0.250	ug/sample	Chlordane
862477	504	ND <0.250	ug/sample	Chlordane
862478	505	ND <0.250	ug/sample	Chlordane
862479	506	ND <0.250	ug/sample	Chlordane

Report contains 1 page(s).

If you have any questions about these results, please call the lab at (800) 446-0403.

Steve Strebel, Organic Supervisor

Mark Hudzinski

WOHL Wisconsin Occupational Health Laboratory

Mail: P.O. Box 7996 Madison, WI 53707-7996 Phone: (800) 446-0403

Packages: 2601 Agriculture Dr. Madison, WI 53718 Fax: (608) 224-6213

Wisconsin State Laboratory of Hygiene

University of Wisconsin

Chlordane Analysis Results
Mr. John Tiffany
Tiffany-Bader Environmental
Project: Northport Middle School
December 13, 2000

Six gauze wipes were submitted to the Wisconsin Occupational Health Laboratory for Chlordane analysis. The samples were extracted with toluene and analyzed by gas chromatography with electron capture detection (GC-ECD).

Analysis results showed Chlordane present at a quantifiable level in one sample. No Chlordane was present at detectable levels in any of the other samples. Results were confirmed using a second column and the GC-ECD instrumentation. Two gauze pads were spiked with Chlordane and analyzed in the same way as the field samples to check recovery. The average recovery was 103%.

If you have any questions about the report, please call the lab at (800) 446-0403.

Date of analysis: 12/12/2000

APPENDIX B:

CHLORDANE DUST WIPE SAMPLES

Northport Middle School
December 19, 2000

SAMPLE ID #	LOCATION; Classrm A-15	Concentration, ug/sample	Concentration, mg/sample
121900-701	Teacher's Desk	NQ	
121900-702	Three Student Desks	NQ	
121900-703	Window sills	1.96 ug/sample	0.00196 mg/sample
121900-704	Field Blank	ND	

NQ = Not Quantifiable; below the limits of quantification, which was 0.500 μg per sample wipe.
The limit of detection was 0.250 μg per sample wipe.
[μg = microgram; 1,000 μg = 1 milligram (mg)].

WOHL Wisconsin Occupational Health Laboratory
Wisconsin State Laboratory of Hygiene
University of Wisconsin
Mail: P.O. Box 7996 Madison, WI 53707-7996 Phone: (800) 446-0403
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December 21, 2000

JOHN TIFFANY
TIFFANY BADER ENVIRONMENTAL
PO BOX 1022
355 LONG LANE
BEDMINSTER NJ 07921-1022

Company #: 4894

PROJ NORTHPORT
MIDDLE SCHOOL

The results for the samples received by the lab on 12/20/00 are as follows:

Lab#	Field#	Value	Unit	Analyte
864380	701	<=.500	ug/sample	Chlordane
864381	702	<=.500	ug/sample	Chlordane
864382	703	1.96	ug/sample	Chlordane
864383	704	ND <0.250	ug/sample	Chlordane

Report contains 1 page(s).

If you have any questions about these results, please call the lab at (800) 446-0403.

Steve Strebel, Organic Supervisor

Mark Hudziak

WOHL Wisconsin Occupational Health Laboratory
Wisconsin State Laboratory of Hygiene
University of Wisconsin

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Madison, WI 53707-7996
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2601 Agriculture Dr.
Madison, WI 53718
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Chlordane Analysis Results
Mr. John Tiffany
Tiffany-Bader Environmental
Project: Northport Middle School
December 21, 2000

Four gauze wipes were submitted to the Wisconsin Occupational Health Laboratory for Chlordane analysis. The samples were extracted with toluene and analyzed by gas chromatography with electron capture detection (GC-ECD). OSHA Method 67 was used as a reference.

Analysis results showed Chlordane present at a quantifiable level in one sample, and at trace (below the minimum quantitation limit) levels in two others. Results were confirmed using a second column and the GC-ECD instrumentation. Two gauze pads were spiked with Chlordane and analyzed in the same way as the field samples to check recovery. The average recovery was 107%.

If you have any questions about the report, please call the lab at (800) 446-0403.

Date of analysis: 12/20/2000

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ENVIROSCIENCE CONSULTANTS, INC.

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January 2, 2001

Dr. William Brosnan, Superintendent of Schools
Northport East Northport Union Free School District
Post Office Box 210
110 Elwood Road
Northport, N.Y. 11768

Phone: 631-262-6604 Facsimile: 631-262-6607

Subject: Chlordane Surface Wipe Samples, Northport Middle School, December 21, 2000
Chlordane Air Samples, Northport Middle School, December 28, 2000

Dear Dr. Brosnan:

This report describes the chlordane surface wipe results collected at Northport Middle School on December 21, 2000 and chlordane air sample results collected December 28, 2000.

Table 1. Chlordane Air Sample Results, December 21, 2000

Sample ID #	Location	MDL ug/m^3	Result ug/m^3
CA-1	Room A15	0.05	<0.05
CA-2	Room C30	0.07	<0.07
CA-3	Room G51	0.04	<0.04
CA-4	Room K73	0.04	<0.04
CA-5	Room L80	0.05	<0.05
CA-6	Room 104	0.05	<0.05

The results of the chlordane air samples taken are less than the detectable limits of 0.08 - 0.14 ug/m^3. The United States Environmental Protection Agency's Reference Concentration (RfC) for chlordane is 0.007 mg/m^3 (7 ug/m^3). The United States Environmental Protection Agency's estimates that inhalation of this concentration, or less, over a lifetime would not likely result in the occurrence of chronic, non cancer effects. The EPA estimates that if an individual were to breathe air containing chlordane at 0.01 ug/m^3 over his or her entire lifetime, that this person would theoretically have no more than a one-in-a million increased chance of developing cancer as a direct result of breathing air containing chlordane.

Table 2. Chlordane Surface Wipe Sample Results, December 28, 2000

Sample ID #	Location	MDL ug/m^3	Result ug/m^3
CSW-1	A15 desks A2, D2, F2	0.5	< 0.5
CSW-2	A15 west end sill	0.5	< 0.5
CSW-3	A15 teacher's desk	0.5	< 0.5
CSW-4	A15 field blank glove wipe	0.5	< 0.5

Surface wipes for chlordane are rarely, if ever, conducted in buildings since the United States Environmental Protection Agency's reference values are for food consumption (0.0005 mg/kilogram of person's body weight per day) and inhalation (0.007 mg/m^3 or 7 ug/m^3 for non cancer effects and 0.01 ug over a lifetime of exposure for cancer effects). The United States Environmental Protection Agency has no guidelines or reference value for surface wipe samples. Chlordane was commonly used around buildings in the United States and Long Island to control wood boring insects. The pesticide is persistent in the environment and it is not unusual to be found on floors indoors where a building has been treated.

Please contact me if you have any questions at 631-580-3191 or facsim.le 631-580-3195, or e-mail <chuckgilbert@envirohealth.org>.

Sincerely,

Charles E. Gilbert, Ph.D.,M.S.,
Toxicologist & Epidemiologist

ENVIROSCIENCE CONSULTANTS, INC.

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22 January 2001

Dr. William Bronsnan, Superintendent of Schools
Northport East Northport Union Free School District
Post Office Box 210
110 Elwood Road
Northport, N.Y. 11768

Phone: 631-262-6604 Facsimile: 631-262-6607
Subject: Chlordane Air Samples, Northport Middle School, January 2-3, 2001

Dear Dr. Brosnan:

This report describes the chlordane air sample results collected overnight between 3:45 PM January 2, 2001 through 8:55 AM January 3, 2001 at Northport Middle School.

Table 1. Chlordane Air Sample Results Northport Middle School, January 2-3, 2001

ID Number	Location	MDL ug/m^3	Results ug/m^3
CA-1	In Room 62 by Door	0.02	< 0.02
CA-2	In Room 61 by Door	0.11	< 0.11
CA-3	Door Adjacent to Room 53A	0.08	< 0.08
CA-4	In Room 57 by Door	0.08	< 0.08
CA-5	Room 54A	0.02	< 0.02
CA-6	Room K71	0.09	< 0.09
CA-1	Room L82	0.07	< 0.07
CA-8	Room A10	0.02	< 0.02
CA-9	Room A12	0.08	< 0.08
CA-10	Room B24	0.09	< 0.09
CA-11	Room C34	0.02	< 0.02
CA-12	Gymnasium	0.02	< 0.02
CA-13	Team Locker Room	0.04	< 0.04
CA-14	Blank	0.02	< 0.02

The results of the chlordane air samples taken are less than the detectable limits of 0.02 - 0.11 ug/m^3. The United States Environmental Protection Agency's Reference Concentration (RfC) for chlordane is 7 ug/m^3 (0.007 mg/m^3). The United States Environmental Protection Agency's estimates that inhalation of this concentration, or less, over a lifetime would not likely result in the occurrence of chronic, non-cancer effects. The EPA estimates that if an individual were to breathe air containing chlordane at 0.01 ug/m^3 over his or her entire lifetime, that this person would theoretically have no more than a one-in-a million increased chance of developing cancer as a direct result of breathing air containing chlordane.

Please contact me if you have any questions at 631-580-3191 or facsimile 631-580-3195, or e-mail <chuckgilbert@envirohealth.org>.

Sincerely,

Charles E. Gilbert, Ph.D.,M.S.,
Toxicologist & Epidemiologist

ENVIROSCIENCE CONSULTANTS, INC.

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April 24, 2001

Mr. Anthony S. Resca
Superintendent of Buildings and Grounds
Northport East Northport UFSD
P.O. Box 210
Northport, NY 11768

Re: **Northport Middle School Chlordane Sampling**

Dear Mr. Resca:

As a follow up to the most recent round of chlordane sampling of the soil at the Northport Middle School (as reported to you in our letter dated April 17, 2001), the most recent round of sampling showed that only two of the 14 samples obtained showed detectable levels of chlordane. The concentrations detected were well below the New York State Department of Environmental Conservation Soil Cleanup Objectives (TAGM-4046). The two detections were at the north end of the L wing and the concentrations detected were 0.19 and 0.11 mg/kg. The Soil Cleanup Objective for chlordane is 0.54 mg/kg.

Based on this information, there are no limitations for construction, excavation, or other related activities in these areas.

Should you have any questions, please do not hesitate to call.

Very truly yours,

Peter Dermody, C.P.G.
Senior Hydrogeologist

pd\northportresca3